SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-Caspase-2 p13/FITC Conjugated antibody

Catalog Number: SL23456R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Caspase-2 p13/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human Caspase-2 subunit p13
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Pig,Horse,Rabbit,Sheep)
Background:	background: This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Caspases mediate cellular apoptosis through the proteolytic cleavage of specific protein substrates. The encoded protein may function in stress-induced cell death pathways, cell cycle maintenance, and the suppression of tumorigenesis. Increased expression of this gene may play a role in neurodegenerative disorders including Alzheimer's disease, Huntington's disease and temporal lobe epilepsy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011] **Function:** Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival. **Subunit:** Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a p18 subunit and a p12 subunit. Interacts with LRDD. Interacts with NOL3 (via CARD domain); inhibits CASP2

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	activity in a phosphorylation-dependent manner. **Tissue Specificity:** Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle. **Post-translational modifications:** The mature protease can process its own propeptide, but not that of other caspases. **Similarity:** Belongs to the peptidase C14A family. Contains 1 CARD domain. **Database links:** **Entrez Gene:** 835 Human **Entrez Gene:** 12366 Mouse **Entrez Gene:** 64314 Rat Omim: 600639 Human **SwissProt:** P42575 Human **SwissProt:** P29594 Mouse **SwissProt:** P55215 Rat **Unigene:** 368982 Human **Unigene:** 3921 Mouse **Unigene:** 1438 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.